



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 149407

TO: Nita M Minnifield
Location: rem/3c01/3c18
Art Unit: 1645
Thursday, March 31, 2005

Case Serial Number: 10/643888

From: Edward Hart
Location: Biotech-Chem Library
REM-1A55
Phone: 571-272-2512

edward.hart@uspto.gov

Search Notes

Examiner Minnifield,

Here are the results of the search you requested.

Please feel free to contact me if you have any questions.

Edward Hart



From: Chan, Christina
Sent: Thursday, March 31, 2005 1:00 PM
To: Minnifield, Nita; STIC-Biotech/ChemLib
Subject: RE: interference sequence search request

Please rush. Thaks Chris

Chris Chan

TC 1600 New Hire Training Coordinator and SPE 1644
(571)-272-0841
Remsen, 3E89

-----Original Message-----

From: Minnifield, Nita
Sent: Thursday, March 31, 2005 9:32 AM
To: Chan, Christina
Subject: interference sequence search request

Christina, please approve, 2 month amdt.

STIC

10/643888

Please do an interference sequence search on SEQ ID NO: 38,
52 and 64 of the above application.

Please provide a paper copy of the results.

Thanks,
Minnifield
71976

STAFF USE ONLY

Searcher: _____
Searcher Phone: 2- _____
Date Searcher Picked up: 3/31/05
Date Completed: 3/31/05
Searcher Prep/Rev. Time: _____
Online Time: _____

Type of Search

NA#: 3 AA#: _____
Interference: _____ SPDI: _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure#: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable

STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: ROT
WWW/Internet: _____
Other(Specify): _____

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OM protein - protein search, using SW model

Run on: March 31, 2005, 13:39:24 / Search time 17.333 Seconds
(without alignments)
38.760 Million cell updates/sec

Title: US-10-643-888-38

Perfect score: 44

Sequence: 1 YLVPWVATV 9

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

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2: /cgn2_6/ptodate/1/1aa/5B.COMB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	44	100.0	9	4 US-10-405-231A-41	Sequence 41, Appl
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13	44	100.0	22	4 US-09-984-365-20	Sequence 20, Appl
14	44	100.0	22	4 US-09-984-365-21	Sequence 21, Appl
15	41	93.2	9	4 US-09-692-325-51	Sequence 51, Appl
16	41	93.2	9	4 US-09-692-325-57	Sequence 57, Appl
17	40	90.9	9	4 US-09-692-325-58	Sequence 58, Appl
18	40	90.9	9	4 US-09-692-170C-40	Sequence 40, Appl
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22	40	90.9	9	4 US-09-692-325-62	Sequence 62, Appl
23	40	90.9	9	4 US-09-692-325-63	Sequence 63, Appl
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ALIGNMENTS

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RESULT 1
US-09-692-170C-41
Sequence 41, Application US/09692170C
Patent No. 6562345
GENERAL INFORMATION:
APPLICANT: Diamond, Don J.
TITLE OF INVENTION: IMMUNO-REACTIVE PEPTIDE CTL EPITOPES OF HUMAN CYTOMEGALOVIRUS
FILE REFERENCE: 1954-346
CURRENT APPLICATION NUMBER: US/09/692,170C
CURRENT FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: US 09/534,639
PRIOR FILING DATE: 2000-03-27
PRIOR APPLICATION NUMBER: US 09/075,257
PRIOR FILING DATE: 1998-05-11
PRIOR APPLICATION NUMBER: US 09/021,298
PRIOR FILING DATE: 1998-02-10
PRIOR APPLICATION NUMBER: US 08/950,064
PRIOR FILING DATE: 1997-10-14
PRIOR APPLICATION NUMBER: US 08/747,488
PRIOR FILING DATE: 1996-11-12
NUMBER OF SEQ ID NOS: 44
SOFTWARE: PatentIn version 3.1
SEQ ID NO 41
LENGTH: 9
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Amdated variant human cytomegalovirus peptide epitope
NAME/KEY: MOD_RES
LOCATION: (9)..(9)
OTHER INFORMATION: AMIDATION
US-09-692-170C-41
Query Match 100.0%; Score 44; DB 4; Length 9;
Best Local Similarity 100.0%; Pred.No. 4.1e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 YLVPWVATV 9
Db 1 YLVPWVATV 9
RESULT 2
US-09-692-325-37
Sequence 37, Application US/09692325
Patent No. 6632435
GENERAL INFORMATION:
APPLICANT: Diamond, Don
TITLE OF INVENTION: CTL Epitope Analogs
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OM protein - protein search, using sw model

Run on: March 31, 2005, 13:39:24 ; Search time 163.667 Seconds
(without alignments)
18.234 Million cell updates/sec

Title: US-10-643-888-38

Sequence: 44 YLVPVAVTV 9

Scoring table:

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Searched: 1413372 seqs, 331592847 residues

Total number of hits satisfying chosen parameters: 1413372

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Published Applications_AA:
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15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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17	44	100.0	22	17	US-10-736-640-21	Sequence 23, Appl
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33	40	90.9	22	14	US-10-405-231-23	Sequence 39, Appl
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45	37	84.1	9	14	US-10-409-063-6	Sequence 51, Appl

ALIGNMENTS

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Sequence 41, Application US/09984365
Publication No. US20030224980A1
GENERAL INFORMATION:
APPLICANT: Diamond, Don J
TITLE OF INVENTION: IMMUNO-REACTIVE PEPTIDE CTL EPTOPES OF HUMAN CYTOMEGALOVIRUS
FILE REFERENCE: 1954-384
CURRENT APPLICATION NUMBER: US/09/984,365
CURRENT FILING DATE: 2002-03-13
PRIOR APPLICATION NUMBER: US 09/692170
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: US 09/534639
PRIOR FILING DATE: 2000-03-27
PRIOR APPLICATION NUMBER: US 09/075257
PRIOR FILING DATE: 1998-05-11
PRIOR APPLICATION NUMBER: US 09/021298
PRIOR FILING DATE: 1998-02-10
PRIOR APPLICATION NUMBER: US 08/950064
PRIOR FILING DATE: 1997-10-14
PRIOR APPLICATION NUMBER: US 08/747488
PRIOR FILING DATE: 1996-11-12
NUMBER OF SEQ ID NOS: 44
SOFTWARE: PatentIn version 3.1
SEQ ID NO 41
LENGTH: 9
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: HCV pp65 sequence variant
NAME/KEY: MOD RES
LOCATION: (9).(9)
OTHER INFORMATION: AMIDATION
US-09-984-365-41

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OM protein - protein search, using sw model

Run on: March 31, 2005, 13:39:24 ; Search time 17.333 Seconds
(without alignments)
38.760 Million cell updates/sec

Title: US-10-643-888-52

Perfect score: 42

Sequence: 1 NLLPMVASV 9

Scoring table:

BLOSUM62
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Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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17	36	85.7	9 4 US-09-692-170C-1	Sequence 1, Appl
18	36	85.7	9 4 US-09-692-170C-39	Sequence 39, Appl
19	36	85.7	9 4 US-09-813-079A-15	Sequence 15, Appl
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21	36	85.7	9 4 US-09-692-325-1	Sequence 1, Appl
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23	36	85.7	9 4 US-09-692-325-18	Sequence 18, Appl
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25	36	85.7	9 4 US-09-692-325-77	Sequence 77, Appl
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ALIGNMENTS

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30	36	85.7	9 4 US-10-238-607-1	Sequence 1, Appl
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41	36	85.7	12 4 US-10-238-607-30	Sequence 30, Appl
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RESULT 1
US-09-692-325-51
; Sequence 51, Application US/09692325
; Patent No. 6632435
; GENERAL INFORMATION:
; APPLICANT: Diamond, Don
; TITLE OF INVENTION: CTL Epitope Analogs
; FILE REFERENCE: 1954-314
; CURRENT APPLICATION NUMBER: US/09/692,325
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: US 60/160633
; PRIOR FILING DATE: 1999-10-20
; PRIOR APPLICATION NUMBER: US 60/187871
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 51
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; TYPE: PRT
; ORGANISM: Artificial Sequence
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; OTHER INFORMATION: HCMV vaccine peptide
; NAME/KEY: MOD RES
; LOCATION: (9)..(9)
; OTHER INFORMATION: AMIDATION
US-09-692-325-51

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Best Local Similarity 100.0%; Pred. No. 4; 1e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db      1 NLLPMVASV 9

RESULT 2
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; Sequence 52, Application US/09692325
; Patent No. 6632435
; GENERAL INFORMATION:
; APPLICANT: Diamond, Don
; TITLE OF INVENTION: CTL Epitope Analogs
; FILE REFERENCE: 1954-314
; CURRENT APPLICATION NUMBER: US/09/692,325
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: US 60/160633
; PRIOR FILING DATE: 1999-10-20
; PRIOR APPLICATION NUMBER: US 60/187871
; PRIOR FILING DATE: 2000-03-08

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OM protein - protein search, using SW model

Run on: March 31, 2005, 13:39:24 ; Search time 163.667 Seconds

(without alignments)
18,234 Million cell updates/sec

Title: US-10-643-888-52

Perfect score: 42

Sequence: 1 NLLPMVASV 9

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 1413372 seqs, 331592847 residues

Total number of hits satisfying chosen parameters: 1413372

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database:

Published Applications AA:*

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- 17: /cgn2_6/ptodata/1/pubppa/US10D_PUBCOMB.pep:*
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- 19: /cgn2_6/ptodata/1/pubppa/US11_NEW_PUB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	42	100.0	9	15	US-10-643-888-52
3	42	100.0	22	14	US-09-984-365-24
4	42	100.0	22	14	US-10-238-607-24
5	42	100.0	22	14	US-10-405-231-24
6	42	100.0	22	16	US-10-697-053-24
7	42	100.0	22	17	US-10-736-640-24
8	39	92.9	9	15	US-10-643-888-39
9	39	92.9	9	15	US-10-643-888-40
10	39	92.9	9	15	US-10-643-888-45
11	39	92.9	9	15	US-10-643-888-46
12	38	90.5	9	15	US-10-643-888-45
13	38	90.5	9	15	US-10-643-888-66

14	38	90.5	9	15	US-10-643-888-67	Sequence 67, Appl
15	38	90.5	9	15	US-10-643-888-68	Sequence 68, Appl
16	36	85.7	9	9	US-09-812-079A-15	Sequence 15, Appl
17	36	85.7	9	9	US-09-832-336-10	Sequence 10, Appl
18	36	85.7	9	9	US-09-815-330A-6	Sequence 6, Appl
19	36	85.7	9	9	US-09-954-392-1	Sequence 1, Appl
20	36	85.7	9	9	US-09-319-264-8	Sequence 8, Appl
21	36	85.7	9	10	US-09-984-365-1	Sequence 1, Appl
22	36	85.7	9	10	US-09-984-365-39	Sequence 39, Appl
23	36	85.7	9	14	US-10-238-607-1	Sequence 39, Appl
24	36	85.7	9	14	US-10-238-607-39	Sequence 39, Appl
25	36	85.7	9	14	US-10-409-063-6	Sequence 6, Appl
26	36	85.7	9	14	US-10-405-231-1	Sequence 1, Appl
27	36	85.7	9	14	US-10-405-231-39	Sequence 39, Appl
28	36	85.7	9	14	US-10-434-982-15	Sequence 15, Appl
29	36	85.7	9	15	US-10-623-429-13	Sequence 13, Appl
30	36	85.7	9	15	US-10-643-888-1	Sequence 1, Appl
31	36	85.7	9	15	US-10-643-888-10	Sequence 10, Appl
32	36	85.7	9	15	US-10-643-888-18	Sequence 18, Appl
33	36	85.7	9	15	US-10-643-888-19	Sequence 19, Appl
34	36	85.7	9	15	US-10-643-888-77	Sequence 77, Appl
35	36	85.7	9	15	US-10-643-888-78	Sequence 78, Appl
36	36	85.7	9	16	US-10-603-094-1	Sequence 1, Appl
37	36	85.7	9	16	US-10-618-267-4	Sequence 4, Appl
38	36	85.7	9	16	US-10-415-841A-17	Sequence 17, Appl
39	36	85.7	9	16	US-10-777-053-198	Sequence 198, Appl
40	36	85.7	9	16	US-10-697-053-1	Sequence 1, Appl
41	36	85.7	9	16	US-10-697-053-39	Sequence 39, Appl
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43	36	85.7	9	17	US-10-482-284A-5	Sequence 5, Appl
44	36	85.7	9	17	US-10-736-640-1	Sequence 1, Appl
45	36	85.7	9	17	US-10-736-640-39	Sequence 39, Appl

ALIGNMENTS

RESULT 1
US-10-643-888-51
Sequence 51, Application US/10643888
Publication No. US20040086520A1
GENERAL INFORMATION:
APPLICANT: Diamond, Don
TITLE OR INVENTION: CTL Epitope Analogs
FILE REFERENCE: 1954-314
CURRENT FILING DATE: 2003-08-20
PRIOR FILING DATE: 2000-10-20
PRIOR FILING DATE: 2000-09-22, 325
PRIOR FILING DATE: 2000-10-20
PRIOR FILING DATE: 1999-10-20
PRIOR APPLICATION NUMBER: US 60/160633
PRIOR APPLICATION NUMBER: US 60/187871
PRIOR FILING DATE: 2000-03-08
NUMBER OF SEQ ID NOS: 78
SOFTWARE: PatentIn version 3.0
SEQ ID NO 51
LENGTH: 9
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: HCMV vaccine peptide
NAME/KEY: MOD RES
LOCATION: (9)-(9)
OTHER INFORMATION: AMIDATION
US-10-643-888-51

Query Match 100.0%; Score 42; DB 15; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.3e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
1 NLLPMVASV 9
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GenCore version 5.1.6
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OM protein - protein search, using SW model

Run on: March 31, 2005, 13:39:24 ; Search time 17.3333 Seconds
(without alignments)
38.760 Million cell updates/sec

Title: US-10-643-888-64

Perfect score: 43

Sequence: 1 YLVPWVASV 9

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

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Post-processing: Minimum Match 0%
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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6	43	100.0	9	4	US-09-984-365-40
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15	43	93.0	9	4	US-09-692-325-40
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17	43	93.0	9	4	US-10-238-607-41
18	43	93.0	9	4	US-09-984-365-41
19	43	93.0	22	4	US-09-692-170C-20
20	43	93.0	22	4	US-09-692-170C-21
21	43	93.0	22	4	US-10-405-231A-20
22	43	93.0	22	4	US-10-405-231A-21
23	43	93.0	22	4	US-10-238-607-20
24	43	93.0	22	4	US-10-238-607-21
25	43	93.0	22	4	US-09-984-365-20
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28	39	90.7	9	4	US-09-692-325-70	Sequence 70, App1
29	39	90.7	9	4	US-09-692-325-71	Sequence 71, App1
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36	36	83.7	9	4	US-09-692-325-45	Sequence 45, App1
37	36	83.7	9	4	US-09-692-325-46	Sequence 46, App1
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43	35	81.4	9	4	US-09-489-039A-13906	Sequence 1, App1
44	33	76.7	9	3	US-09-075-257A-1	Sequence 1, App1
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ALIGNMENTS

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; Sequence 40, Application US/09692170C
; Patent No. 6562345
; GENERAL INFORMATION:
; APPLICANT: Diamond, Don J.
; TITLE OF INVENTION: IMMUNO-REACTIVE PEPTIDE CTL EPTOPES OF HUMAN CYTOMEGALOVIRUS
; FILE REFERENCE: 1954-346
; CURRENT FILING DATE: 2000-10-20
; PRIOR FILING DATE: 1998-05-11
; PRIOR APPLICATION NUMBER: US 09/692,170C
; PRIOR FILING DATE: 1998-02-10
; PRIOR APPLICATION NUMBER: US 08/950,064
; PRIOR FILING DATE: 1997-10-14
; PRIOR APPLICATION NUMBER: US 08/747,488
; PRIOR FILING DATE: 1996-11-12
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 40
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Amlidated variant human cytomegalovirus peptide epitope
; NAME/KEY: MOD_RES
; LOCATION: (9)..(9)
; OTHER INFORMATION: AMIDATION
US-09-692-170C-40

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Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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; Sequence 63, Application US/09692325
; Patent No. 6632435
; GENERAL INFORMATION:
; APPLICANT: Diamond, Don
; TITLE OF INVENTION: CTL Epitope Analogs

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GenCore Version 5.1.6
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OM protein - protein search, using SW model

Run on: March 31, 2005, 13:39:24 ; Search time 163.667 seconds
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Title: US-10-643-888-64

Perfect score: 43

Sequence: 1 YLVPVAVSV 9

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Post-processing: Minimum Match 0%

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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5	43	100.0	9	15	US-10-643-888-64
6	43	100.0	9	16	US-10-697-055-40
7	43	100.0	9	17	US-10-736-640-40
8	43	100.0	22	10	US-09-984-365-23
9	43	100.0	22	14	US-10-238-607-23
10	43	100.0	22	14	US-10-405-231-23
11	43	100.0	22	16	US-10-697-055-23
12	43	100.0	22	17	US-10-736-640-23
13	40	93.0	9	10	US-09-984-365-41

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15	40	93.0	9	14	US-10-405-231-41	Sequence 41, Appl
16	40	93.0	9	15	US-10-643-888-37	Sequence 37, Appl
17	40	93.0	9	15	US-10-643-888-38	Sequence 38, Appl
18	40	93.0	9	15	US-10-643-888-77	Sequence 77, Appl
19	40	93.0	9	15	US-10-643-888-78	Sequence 78, Appl
20	40	93.0	9	16	US-10-697-055-41	Sequence 41, Appl
21	40	93.0	9	17	US-10-736-640-41	Sequence 41, Appl
22	40	93.0	22	10	US-09-984-365-20	Sequence 20, Appl
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31	40	93.0	22	17	US-10-736-640-21	Sequence 20, Appl
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34	39	90.7	9	15	US-10-643-888-71	Sequence 71, Appl
35	39	90.7	9	15	US-10-643-888-72	Sequence 72, Appl
36	37	86.0	9	15	US-10-643-888-57	Sequence 57, Appl
37	37	86.0	9	15	US-10-643-888-58	Sequence 58, Appl
38	36	83.7	9	15	US-10-643-888-3	Sequence 3, Appl
39	36	83.7	9	15	US-10-643-888-35	Sequence 35, Appl
40	36	83.7	9	15	US-10-643-888-36	Sequence 36, Appl
41	36	83.7	9	15	US-10-643-888-45	Sequence 45, Appl
42	36	83.7	9	15	US-10-643-888-46	Sequence 46, Appl
43	36	83.7	9	15	US-10-643-888-59	Sequence 59, Appl
44	36	83.7	9	15	US-10-643-888-60	Sequence 60, Appl
45	36	83.7	9	15	US-10-643-888-60	Sequence 60, Appl

ALIGNMENTS

RESULT 1

US-09-984-365-40

Sequence 40, Application US/09984365

Publication No. US20030224980A1

GENERAL INFORMATION:

APPLICANT: Diamond, Don J

TITLE OF INVENTION: IMMUNO-REACTIVE PEPTIDE CTL EPITOPES OF HUMAN CYTOMEGALOVIRUS

FILE REFERENCE: 1994-384

CURRENT APPLICATION NUMBER: US/09/984,365

PRIOR FILING DATE: 2002-03-13

PRIOR APPLICATION NUMBER: US 09/075257

PRIOR FILING DATE: 1998-05-11

PRIOR APPLICATION NUMBER: US 09/021298

PRIOR FILING DATE: 1998-02-10

PRIOR APPLICATION NUMBER: US 08/950064

PRIOR FILING DATE: 1997-10-14

PRIOR APPLICATION NUMBER: US 08/747488

PRIOR FILING DATE: 1996-11-12

NUMBER OF SEQ ID NOS: 44

SOFTWARE: PatentIn version 3.1

SEQ ID NO 40

LENGTH: 9

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: HCMV pp65 sequence variant

NAME/KEY: MOD RES

LOCATION: (9)..(9)

OTHER INFORMATION: AMIDATION

US-09-984-365-40